

Algebra Review:

$$1) \text{ } b: y = mx + b$$

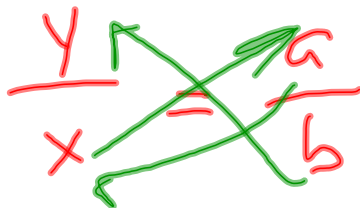
$$\frac{-mx \quad -mx}{}$$

$$y - mx = b$$

$$2) \text{ } x: \cancel{x} \left(\frac{y}{\cancel{x}} \right) = \left(\frac{a}{b} \right) x$$

$$\left(\frac{b}{a} \right) \left(y \right) = \left(\frac{\cancel{a}}{\cancel{b}} \right) x \left(\frac{\cancel{b}}{\cancel{a}} \right)$$

$$\frac{yb}{a} = x$$



$$by = ax$$

$$\frac{by}{a} = \frac{x}{\cancel{1}} = x$$

3) y :

$$\frac{y}{x} = \frac{a}{b}$$

$$\cancel{\frac{1}{b}} (\cancel{by}) = (ax) \frac{1}{b}$$

$$y = \frac{ax}{b}$$

4) b :

$$\frac{y}{x} = \frac{a}{b}$$

$$b = \frac{ax}{y}$$

$$\frac{\text{Top Left}}{\text{Bottom Left}} = \frac{\text{Top Right}}{\text{Bottom Right}}$$

$$5) \quad c: \quad \frac{y}{x} + \frac{b}{c} = a$$

$$\begin{array}{r} \rightarrow \frac{y}{x} \qquad \qquad \qquad -\frac{y}{x} \\ \hline \end{array}$$

$$\cancel{c} \left(\frac{b}{\cancel{c}} \right) = \left(a - \frac{y}{x} \right) \cancel{c}$$

$$\frac{b}{a - \frac{y}{x}} = \frac{c \left(a - \frac{y}{x} \right)}{a - \frac{y}{x}}$$

$$\frac{b}{a - \frac{y}{x}} = c$$